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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/764,194	01/23/2004	Roberto Edmundo Pazmino Sanchez	14402/1	8062
26646 KENYON & K	7590 03/16/201 ENYON LLP	EXAMINER		
ONE BROADY		LAUX, JESSICA L		
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.



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APPLICATION NO./ CONTROL NO.	FILING DATE	FIRST NAMED INVENTOR / PATENT IN REEXAMINATION	ATTORNEY DOCKET NO.
10764194	1/23/2004	SANCHEZ, ROBERTO EDMUNDO PAZN	MINO 14402/1

10764194 1/23/2004 SANCHEZ, ROBERTO EDMUNDO PAZMINO

EXAMINER

KENYON & KENYON LLP ONE BROADWAY NEW YORK, NY 10004

JESSICA LAUX

ART UNIT PAPER

3635 20110307

DATE MAILED:

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Commissioner for Patents

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DETAILED ACTION

This is a supplemental Non-Final rejection to correct a Typo in the previous action, so the record is clear. The time period continues to run from the previous office action.

Information Disclosure Statement

The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Response to Arguments

Applicant's arguments, see the after final amendment, filed 11/19/2010, with respect to the rejection(s) of the claim(s) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made as presented below.

Applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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made.

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was

Claims 1,3,9,11-15,18-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thomas (5678372) in view of Lopez (4372092).

- Claim 1. Thomas discloses a modular building system comprising:
- (a) multiple portable pre-cast modules (14), wherein each of the multiple modules comprise:
 - (i) structural steel mesh (50; Col. 3, lines 66-67, Col. 5, lines 5-14);
- (ii) cementitious mortar encasing the structural steel mesh (Col. 3, lines 53-54); and
- (iii) tapered indentations (44) located along edges of the module and exposing portions of the structural steel mesh (as seen in the figures);
 - (b) metal plate connectors (64); and

wherein the tapered indentations located along edges of the adjacent modules are aligned with each other, the metal plate connectors and are situated in the aligned

tapered indentations of the adjacent modules, and the adjacent modules form a wall (as seen in the figures).

Thomas does not expressly disclose welds between the metal plate connectors and the exposed portions of the structural steel mesh thereby connecting adjacent modules; instead Thomas discloses ties and bends (66) for connecting the steel mesh and the plate connectors.

It is notoriously common and well known in the art to use welds as apposed to ties or bends for securing metal reinforcing. For example Lopez discloses wire mesh that is welded at junctures (Col. 5, lines 28-31). At the time the invention was made it would have been obvious to one of ordinary skill in the art to substitute the bends (64) of Thomas for a welded connection to provide a more secure and efficient connection of the adjacent metal members.

Claim 3. Thomas discloses the modular building system of claim 1, further comprising: a pourable material (Col. 6, lines 7-13) on the edges of the module in contact with an adjacent module but does not expressly disclose that the pourable material is an epoxy resin.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the pourable material of Thomas to be an epoxy resin, where epoxy resins are known for their strength and corrosion resistance, since it has been held to be within the general skill of a worker in the art to select a known material on the basis of its suitability for the intended use as a matter of obvious design choice. In re Leshin, 125 USPQ 416.

Claim 9. The modular building system of claim 1, further comprising:

(e) reinforcing steel mesh (the other of the two reinforcing meshes 50 – Col. 5, lines 5-14); but does not disclose at least one of solder and ties connecting the reinforcing steel mesh and the structural steel mesh.

However, it would have been well within the general knowledge and skill of one of ordinary skill in the art to connect the two meshes via ties (where Thomas discloses it is common to secure via ties) or solder (where Lopez discloses it is known to secure by weldament) where such a connection would allow the reinforcing to act a single and solid reinforcing throughout the entire panel thereby more efficiently and stably reinforcing the panel.

Claim 11. The modular building system of claim 1, wherein the module is one of: (i) a square, (ii) a rectangle, (iii) a triangle, and (iv) a trapezoid (as seen in the figures).

Claims 12-15,18-19. Thomas in view of Lopez disclose the modular building system of claim 1 but do not disclose the specific claimed design parameters of the structural steel mesh and panel. However, Thomas does disclose that it would be obvious to modify the specific dimensions and parameters to accommodate various building requirements (Col. 10, lines 14-34). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to select a structural steel mesh having a yield stress between 4000 and 6000 kt/cm2 or a diameter of 4mm and a spacing of 100mm x 50mm x 100mm x 100mm; a module overall dimension of 750 or 1500 mm x 250mm with a thickness of 40mm; a cementitious mortar including Portland cement, water and sand having a max particle size of 4.8mm,

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to achieve the desired strength to meet the loads imposed on the panel, since it has been held to be within the general skill of a worker in the art to select a known material (in the instant case the desired steel bars) on the basis of its suitability for the intended use as a matter of obvious design choice. *In re Leshin*, 125 USPQ 416.

Claim 20. The modular building system of claim 9, wherein the tapered indentations located along edges of the module expose portions of the reinforcing steel mesh (as seen in the figures, and noted in the disclosure).

Claim 21. The modular building system of claim 1, further comprising: (g) cementitious mortar filling voids in the tapered indentations between the cementitious mortar encasing the structural steel mesh, the metal plate connectors, and the welds (Col. 6, lines 7-13).

Claim 22. The modular building system of claim 1, wherein the multiple portable pre-cast modules are placed at least one of (i) horizontally adjacent and (ii) vertically adjacent to one another to form a wall (as seen in the figures).

Claims 2,16-17,23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Thomas (5678372) in view of Lopez (4372092) and further in view of Jazzar (7121061).

Claims 2,23. Thomas in view of Lopez disclose the modular building system of claim 1, but do not disclose that each module includes a 90 degree appendix on opposite edges of the module.

Jazzar discloses a system of prefabricated wall modules where each module includes a 90 degree appendix on opposite sides (see the figures).

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At the time the invention was made it would have been obvious to one having ordinary skill in the art to modify the panel of Thomas to include a vertical 90 degree appendix on opposite edges to facilitate connection to an adjacent member and provide additional stability to the panel.

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Claims 16-17. Thomas as modified by Lopez and Jazzar disclose the modular building system of claim 2, but do not expressly disclose that each 90 degree appendix has a length between 30 mm and 100 mm or a length of approximately 50 mm from the edge of the module.

However, applicant has not disclosed that the claimed dimensions provide an advantage or solve a stated problem. Furthermore it appears that the appendices of Jazzar and applicant's claimed appendices would perform the same function of strengthening the module and providing a secure connection means equally well. Further it is noted that the modules of Jazzar and applicant's claimed invention are for the purposes of building structures, and therefore would be subject to size limitations and requirements based on the design and function of the building, and that these limitations would vary depending upon the loads subjected to the modules. Therefore it appears to be a mere matter of design choice that would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the appendices of the prior art to have the claimed dimensions to accommodate the required design parameters of the building.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JESSICA LAUX whose telephone number is (571)272-8228. The examiner can normally be reached on Monday thru Thursday, 9:00am to 5:00pm (est).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eileen Lillis can be reached on 571-272-6928. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Eileen Lillis/ Supervisory Patent Examiner, Art Unit 3635

/J. L./

Examiner, Art Unit 3635